

***LineUp With Math™* Alignment**
Hawaii Content and Performance Standards III: Mathematics
Updated 9/28/05

Strand: Numbers and Operations

Standard 1. NUMBER SENSE:

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

Topic and Benchmark

Numbers and Number Systems

MA.8.1.3 Use ratios and proportions to represent the relationship between two quantities

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Strand: Measurement

Standard 4: FLUENCY WITH MEASUREMENT

Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring

Topic and Benchmark

Measurement Tools and Techniques

MA.8.4.2 Express rates of change as a ratio of two different measures, where units are included in the ratio, and use the derived rate to solve problems

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

Measurement Tools and Techniques

MA.8.4.3 Use ratios and proportions to solve measurement problems

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.